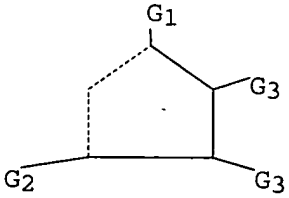
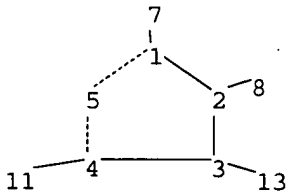
```
Connecting via Winsock to STN


Welcome to STN International!  Enter x:x

LOGINID:ssspta1617srh

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2


* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  SEP 09   ACD predicted properties enhanced in REGISTRY/ZREGISTRY
 NEWS  4  OCT 03   MATHDI removed from STN
 NEWS  5  OCT 04   CA/CAplus-Canadian Intellectual Property Office (CIPO) added
                   to core patent offices
 NEWS  6  OCT 13   New CAS Information Use Policies Effective October 17, 2005
 NEWS  7  OCT 17   STN(R) AnaVist(TM), Version 1.01, allows the export/download
                   of CAplus documents for use in third-party analysis and
                   visualization tools
 NEWS  8  OCT 27   Free KWIC format extended in full-text databases
 NEWS  9  OCT 27   DIOGENES content streamlined
 NEWS 10  OCT 27   EPFULL enhanced with additional content
 NEWS 11  NOV 14   CA/CAplus - Expanded coverage of German academic research
 NEWS 12  NOV 30   REGISTRY/ZREGISTRY on STN(R) enhanced with experimental
                   spectral property data
 NEWS 13  DEC 05   CASREACT(R) - Over 10 million reactions available
 NEWS 14  DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE
 NEWS 15  DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
 NEWS 16  DEC 14 CA/CAplus to be enhanced with updated IPC codes
 NEWS 17  DEC 16 MARPATprev will be removed from STN on December 31, 2005
 NEWS 18  DEC 21 IPC search and display fields enhanced in CA/CAplus with the
                 IPC reform

 NEWS EXPRESS  DECEMBER 02 CURRENT VERSION FOR WINDOWS IS V8.01,
               CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 02 DECEMBER 2005.
               V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
               http://download.cas.org/express/v8.0-Discover/

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 11:02:27 ON 23 DEC 2005
```

```
=> fil reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                         0.21       0.21

FILE 'REGISTRY' ENTERED AT 11:02:37 ON 23 DEC 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   22 DEC 2005  HIGHEST RN 870600-23-0
DICTIONARY FILE UPDATES:  22 DEC 2005  HIGHEST RN 870600-23-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document.  For information
on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\09890875.str
```






```
chain nodes :
7  8  11  13
ring nodes :
1  2  3  4  5
chain bonds :
1-7  2-8  3-13  4-11
ring bonds :
1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
1-2  1-5  1-7  2-3  2-8  3-4  3-13  4-5  4-11
```

G1:O,OH

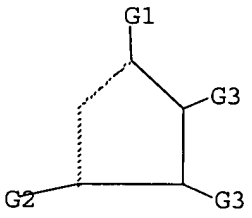
G2:S,H

G3:H,O

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 11:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 O,OH

G2 S,H

G3 H,O

Structure attributes must be viewed using STN Express query preparation.

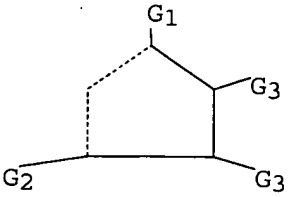
=> s l1
SAMPLE SEARCH INITIATED 11:02:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 457474 TO ITERATE

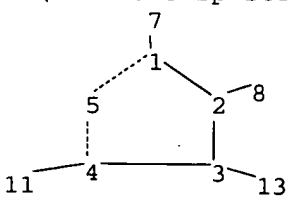
0.4% PROCESSED 2000 ITERATIONS 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **INCOMPLETE**
BATCH **INCOMPLETE**
PROJECTED ITERATIONS: 9111153 TO 9187807
PROJECTED ANSWERS: 281018 TO 295398

L2 50 SEA SSS SAM L1

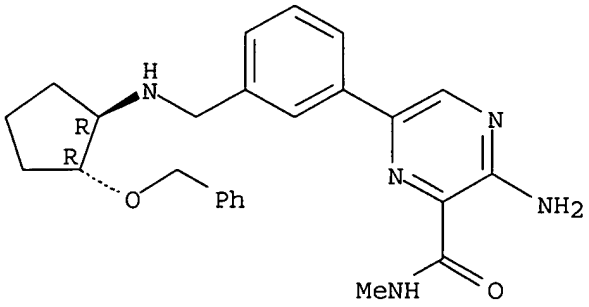
=>
Uploading C:\Program Files\Stnexp\Queries\09890875 sp.str





chain nodes :

```
7  8  11  13
ring nodes :
1  2  3  4  5
chain bonds :
1-7  2-8  3-13  4-11
ring bonds :
1-2  1-5  2-3  3-4  4-5
exact/norm bonds :
1-5  1-7  2-8  3-13  4-5  4-11
exact bonds :
1-2  2-3  3-4
isolated ring systems :
containing 1 :


G1:O,OH

G2:S,H

G3:H,O

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  7:CLASS  8:CLASS  11:CLASS  13:CLASS



L3      STRUCTURE UPLOADED

=> s l3
SAMPLE SEARCH INITIATED 11:03:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    48613 TO ITERATE

  4.1% PROCESSED     2000 ITERATIONS                                 50 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       959108 TO   985412
PROJECTED ANSWERS:           58879 TO    65569

L4           50 SEA SSS SAM L3

=> d scan

L4   50 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   Pyrazinecarboxamide, 3-amino-N-methyl-6-[3-[[[(1R,2R)-2-
     (phenylmethoxy)cyclopentyl]amino]methyl]phenyl]- (9CI)
MF   C25 H29 N5 O2

Absolute stereochemistry.
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.58	2.79

FILE 'STNGUIDE' ENTERED AT 11:06:12 ON 23 DEC 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 16, 2005 (20051216/UP).

=> FIL REGISTRY

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.06	2.85

FILE 'REGISTRY' ENTERED AT 11:06:17 ON 23 DEC 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 22 DEC 2005 HIGHEST RN 870600-23-0
DICTIONARY FILE UPDATES: 22 DEC 2005 HIGHEST RN 870600-23-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************
```

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=> s l3 full
FULL SEARCH INITIATED 11:06:49 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 972505 TO ITERATE

100.0% PROCESSED 972505 ITERATIONS 72868 ANSWERS
SEARCH TIME: 00.00.04

L5 72868 SEA SSS FUL L3

=> s 1/nr
L6 3420614 1/NR

=> s l5 and l6
L7 19619 L5 AND L6

=> fil hcapl
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 168.94 171.79

FILE 'HCAPLUS' ENTERED AT 11:10:58 ON 23 DEC 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 23 Dec 2005 VOL 144 ISS 1
FILE LAST UPDATED: 22 Dec 2005 (20051222/ED)

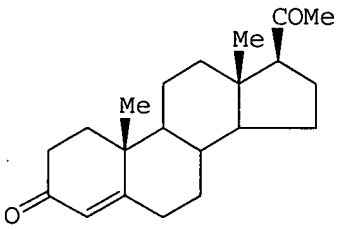
New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7
L8 33258 L7

=> s growth factor
1235054 GROWTH
4268 GROWTHS
1237243 GROWTH
(GROWTH OR GROWTHS)
936110 FACTOR

```
        837816 FACTORS
       1477824 FACTOR
                 (FACTOR OR FACTORS)
L9      174454 GROWTH FACTOR
                 (GROWTH(W)FACTOR)

=> s l9 and l8
L10        421 L9 AND L8

=> s l8 (S) l9
L11         89 L8 (S) L9

=> d ibib abs 87-89

L11  ANSWER 87 OF 89  HCAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:        1979:414082  HCAPLUS
DOCUMENT NUMBER:         91:14082
TITLE:                   Hormonal regulation of proliferation in two
                         populations of rabbit endometrial cells in culture
AUTHOR(S):               Gerschenson, L. E.; Conner, E. A.; Yang, J.;
                         Andersson, M.
CORPORATE SOURCE:        Med. Cent., Univ. Colorado, Denver, CO, 80262, USA
SOURCE:                  Life Sciences (1979), 24(15), 1337-43
                         CODEN: LIFSAK; ISSN: 0024-3205
DOCUMENT TYPE:           Journal
LANGUAGE:                English
GI
```

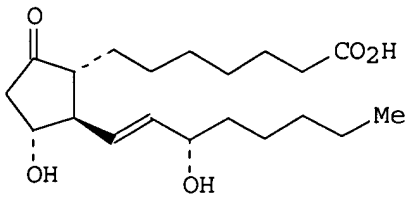


I

AB A technique to culture rabbit primary endometrium epithelial cells in chemical defined medium, whose proliferation was determined to respond to estrogens and progesterone (I) [57-83-0] was previously described. The cultures were made up of 2 cell populations: quiescent and dividing cells. Techniques are described to select for these 2 cell populations using thymidine-3H and cytosine arabinoside or Colcemid. The quiescent cells were the only target for the growth-promoting effect of estrogens. Epidermal **growth factor** [62229-50-9] and PGF2α [**551-11-1**] stimulated the proliferation of both cell populations. I did not antagonize the effect of estrogen on the quiescent cells unless the hormone was incubated previously with a mixed cell culture. The existence of a I putative factor (PPF) resulting from the interaction of I and dividing cells and which is involved in the inhibition of the estrogenic effect on endometrial cell proliferation is suggested. Two other progestins did not have the same effect as I, showing the specificity of I action.

```
L11  ANSWER 88 OF 89  HCAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:        1979:115652  HCAPLUS
DOCUMENT NUMBER:         90:115652
TITLE:                   Neovasculogenic ability of prostaglandins, growth
                         factors, and synthetic chemoattractants
AUTHOR(S):               BenEzra, David
CORPORATE SOURCE:        Natl. Eye Inst., NIH, Bethesda, MD, USA
```

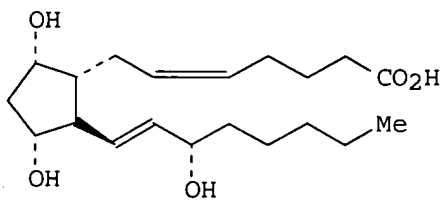
SOURCE: American Journal of Ophthalmology (1978), 86(4), 455-61
CODEN: AJOPAA; ISSN: 0002-9394
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB Prostaglandins E1 (I) [745-65-3], E2 [363-24-6], D2 [41598-07-6], A1 [14152-28-4], F1α [**745-62-0**], and F2α [**551-11-1**] as well as synthetic chemoattractants and **growth factors** were tested for their ability to induce the proliferation of new blood vessels in rabbit cornea. I showed the strongest neovasculogenic activity attracting new blood vessels in all of the cases. PGE2 was a weaker attractant than I. PGF2α induced a less consistent reaction. All implants sequestering PGD2 or PGA1 were neg. Implants sequestering 1 μg of fibroblast growth factor [62031-54-3] or epidermal growth factor [62229-50-9] variably stimulated the proliferation of keratocytes and epithelial cells in vivo. However, none of these demonstrated any vasculogenic activity. A small, but significant neovascularization was observed only in implants sequestering 10 μg of growth factor per implant. Although active in vitro, nerve growth factor and formylated synthetic peptides were not stimulatory in vivo.

L11 ANSWER 89 OF 89 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1977:496528 HCAPLUS
DOCUMENT NUMBER: 87:96528
TITLE: Epidermal growth factor stimulates prostaglandin biosynthesis by canine kidney (MDCK) cells
AUTHOR(S): Levine, Lawrence; Hassid, Aviv
CORPORATE SOURCE: Dep. Biochem., Brandeis Univ., Waltham, MA, USA
SOURCE: Biochemical and Biophysical Research Communications (1977), 76(4), 1181-7
CODEN: BBRCA9; ISSN: 0006-291X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I

AB Serum and(or) arachidonic acid [506-32-1] stimulated prostaglandin (PGF2a (I) [551-11-1], PGE2 [363-24-6]) production by dog kidney epithelial-like (MDCK) cells. Epidermal growth factor (EGF) [62229-50-9] at concns. of 10-9-10-10M stimulated the biosynthesis of prostaglandins by MDCK cells but not that by human fibroblasts (D-550), mouse fibroblasts (3T3),

transformed mouse fibroblasts (MC5-5), and rabbit aorta endothelial cells (CLO). EGF also stimulated the release of radioactivity from MDCK cells radioactively labeled with arachidonic acid-3H.

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	22.65	194.44

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.19	-2.19

FILE 'REGISTRY' ENTERED AT 11:14:29 ON 23 DEC 2005

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 22 DEC 2005 HIGHEST RN 870600-23-0
DICTIONARY FILE UPDATES: 22 DEC 2005 HIGHEST RN 870600-23-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

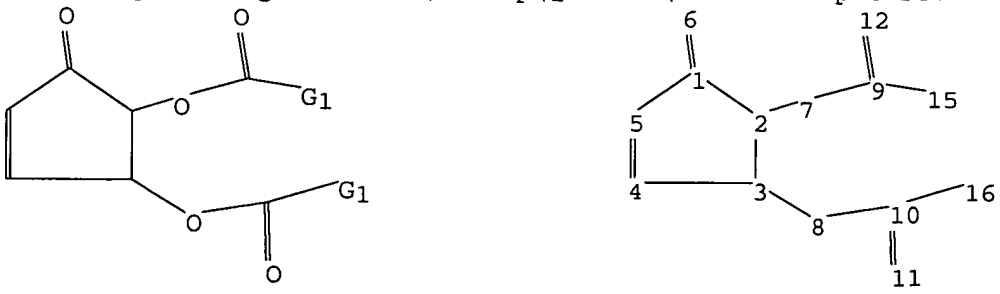
****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\09890875 sp b.str



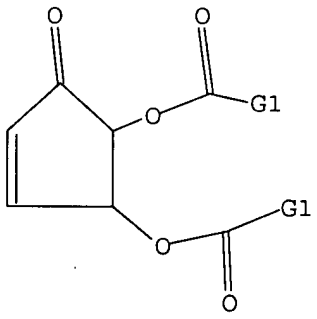
chain nodes :
6 7 8 9 10 11 12 15 16
ring nodes :
1 2 3 4 5
chain bonds :
1-6 2-7 3-8 7-9 8-10 9-12 9-15 10-11 10-16
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-6 2-7 3-8 7-9 8-10 9-12 9-15 10-11 10-16
exact bonds :
1-2 1-5 2-3 3-4 4-5
isolated ring systems :
containing 1 :

G1:H,Cy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS
10:CLASS 11:CLASS 12:CLASS 15:CLASS 16:CLASS

L12 STRUCTURE UPLOADED

=> d
L12 HAS NO ANSWERS
L12 STR



G1 H,Cy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> d his

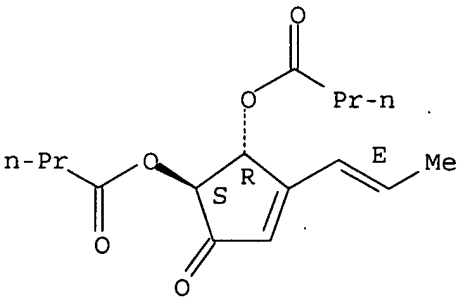
(FILE 'HOME' ENTERED AT 11:02:27 ON 23 DEC 2005)

FILE 'REGISTRY' ENTERED AT 11:02:37 ON 23 DEC 2005
L1 STRUCTURE UPLOADED
L2 50 S L1
L3 STRUCTURE UPLOADED
L4 50 S L3

FILE 'STNGUIDE' ENTERED AT 11:06:12 ON 23 DEC 2005

FILE 'REGISTRY' ENTERED AT 11:06:17 ON 23 DEC 2005
L5 72868 S L3 FULL
L6 3420614 S 1/NR
L7 19619 S L5 AND L6

```
     FILE 'HCAPLUS' ENTERED AT 11:10:58 ON 23 DEC 2005
L8         33258 S L7
L9        174454 S GROWTH FACTOR
L10          421 S L9 AND L8
L11           89 S L8 (S) L9

     FILE 'REGISTRY' ENTERED AT 11:14:29 ON 23 DEC 2005
L12              STRUCTURE UPLOADED

=> s l12 sub=l5 full
FULL SUBSET SEARCH INITIATED 11:15:04 FILE 'REGISTRY'
FULL SUBSET SCREEN SEARCH COMPLETED -      1231 TO ITERATE

100.0% PROCESSED     1231 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

L13            0 SEA SUB=L5 SSS FUL L12

=> s l12
SAMPLE SEARCH INITIATED 11:15:16 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      7386 TO ITERATE

 27.1% PROCESSED     2000 ITERATIONS                                  1 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:       142568 TO   152872
PROJECTED ANSWERS:               1 TO      188

L14            1 SEA SSS SAM L12

=> d

L14  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   149816-52-4  REGISTRY
ED   Entered STN:  04 Sep 1993
CN   Butanoic acid, 5-oxo-3-(1-propenyl)-3-cyclopentene-1,2-diyl ester,
     [1α,2β,3(E)]- (9CI)  (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN   Butanoic acid, 5-oxo-3-(1-propenyl)-3-cyclopentene-1,2-diyl ester,
     [1α,2β,3(E)]-(±)-
FS   STEREOSEARCH
MF   C16 H22 O5
SR   CA
LC   STN Files:   CA, CAPLUS

Relative stereochemistry.
Double bond geometry as shown.
```



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> s l12 full
FULL SEARCH INITIATED 11:15:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 148788 TO ITERATE

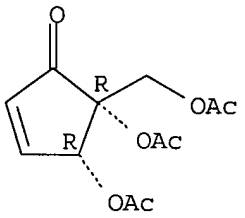
100.0% PROCESSED 148788 ITERATIONS 69 ANSWERS
SEARCH TIME: 00.00.04

L15 69 SEA SSS FUL L12

=> d scan

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(acetyloxy)methyl]-, cis- (9CI)
MF C12 H14 O7

Relative stereochemistry.

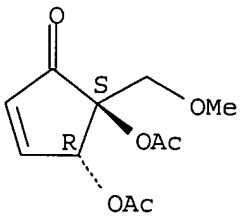


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):68

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-(methoxymethyl)-, (4R-trans)-
(9CI)
MF C11 H14 O6

Absolute stereochemistry.

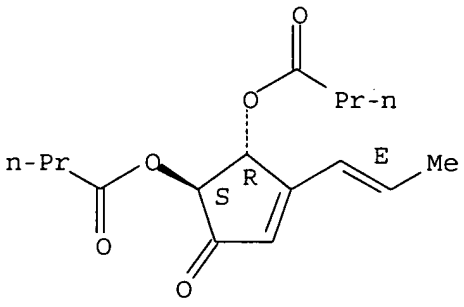


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Butanoic acid, 5-oxo-3-(1-propenyl)-3-cyclopentene-1,2-diyl ester,

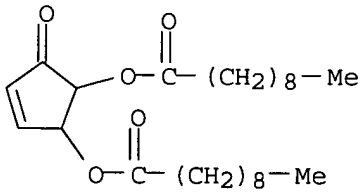
[1α,2β,3(E)]- (9CI)
MF C16 H22 O5

Relative stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

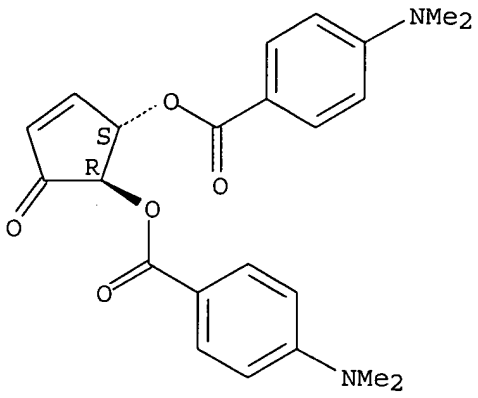
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Decanoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C25 H42 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzoic acid, 4-(dimethylamino)-, (1R,2S)-5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C23 H24 N2 O5

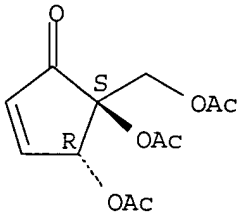
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(acetyloxy)methyl]-, (4R,5S)-
(9CI)
MF C12 H14 O7

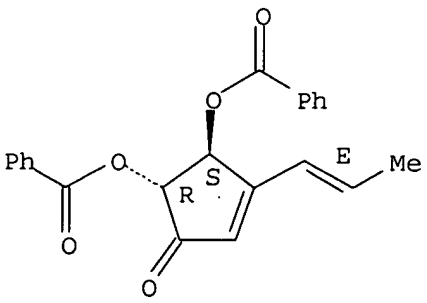
Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(benzoyloxy)-3-(1-propenyl)-,
[4S-[3(E),4α,5β]]- (9CI)
MF C22 H18 O5

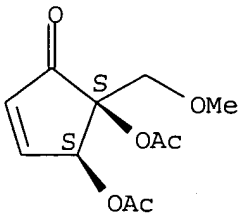
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-(methoxymethyl)-, cis- (9CI)
MF C11 H14 O6

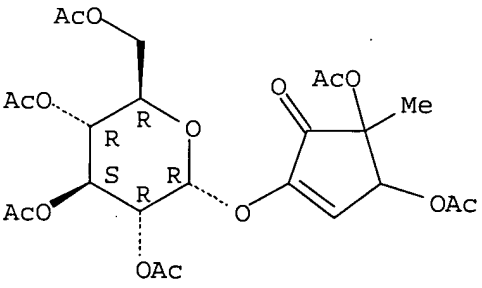
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-methyl-2-[(2,3,4,6-tetra-O-acetyl-α-D-glucopyranosyl)oxy]- (9CI)
MF C24 H30 O15

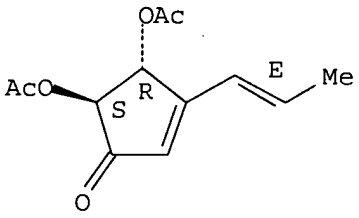
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

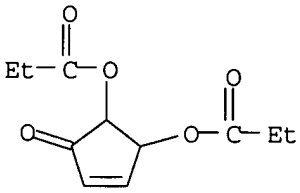
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-3-(1E)-1-propenyl-, (4R,5S)-rel- (9CI)
MF C12 H14 O5

Relative stereochemistry.
Double bond geometry as shown.



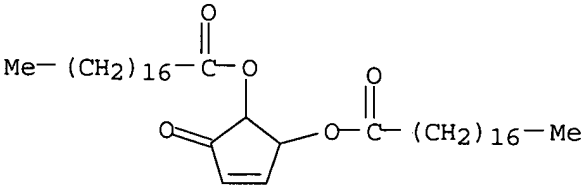
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(1-oxopropoxy)- (9CI)
MF C11 H14 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

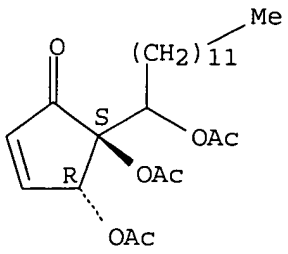
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Octadecanoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C41 H74 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

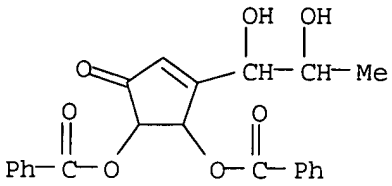
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[1-(acetyloxy)tridecyl]-, (4R,5S)-rel- (9CI)
MF C24 H38 O7

Relative stereochemistry.
Currently available stereo shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

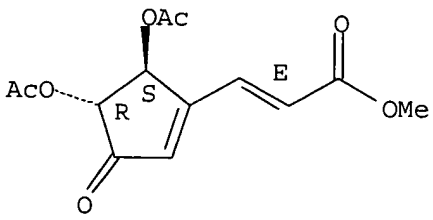
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(benzoyloxy)-3-(1,2-dihydroxypropyl)- (9CI)
MF C22 H20 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

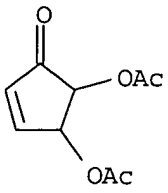
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Propenoic acid, 3-[4,5-bis(acetyloxy)-3-oxo-1-cyclopenten-1-yl]-, methyl ester, [1(E),4α,5β]- (9CI)
MF C13 H14 O7

Relative stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

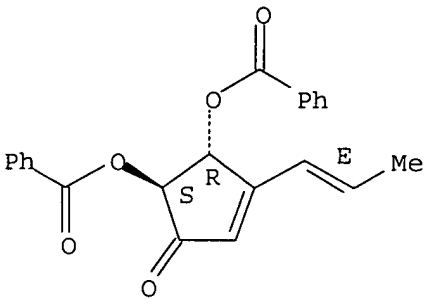
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)- (9CI)
MF C9 H10 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

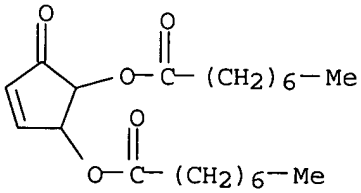
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(benzoyloxy)-3-(1-propenyl)-, [3(E),4α,5β]- (9CI)
MF C22 H18 O5

Relative stereochemistry.
Double bond geometry as shown.



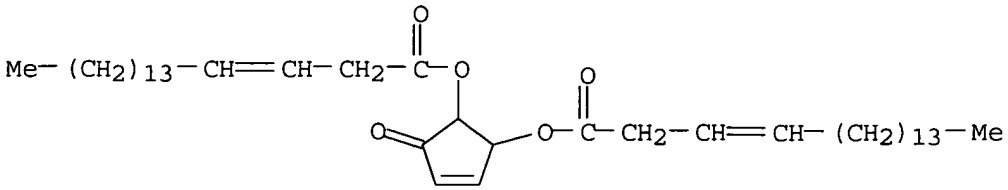
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Octanoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C21 H34 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

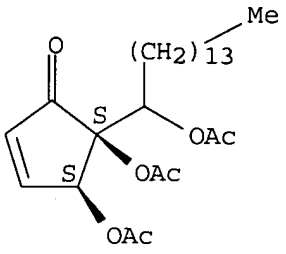
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 3-Octadecenoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C41 H70 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

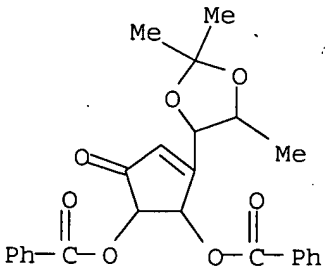
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[1-(acetyloxy)pentadecyl]-, (4R,5R)-rel- (9CI)
MF C26 H42 O7

Relative stereochemistry.
Currently available stereo shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

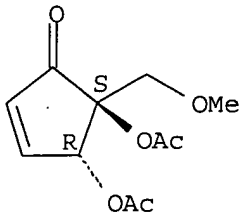
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(benzoyloxy)-3-(2,2,5-trimethyl-1,3-dioxolan-4-yl)- (9CI)
MF C25 H24 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-(methoxymethyl)-, trans- (9CI)
MF C11 H14 O6

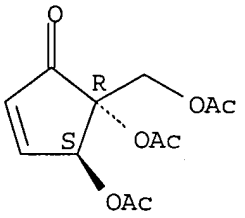
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(acetyloxy)methyl]-, (4S-trans)- (9CI)
MF C12 H14 O7

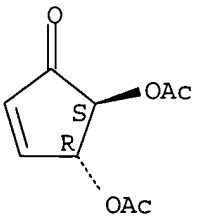
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

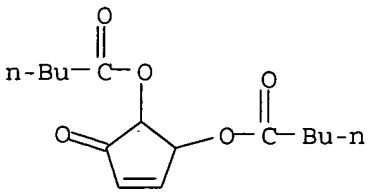
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-, trans- (9CI)
MF C9 H10 O5

Relative stereochemistry.



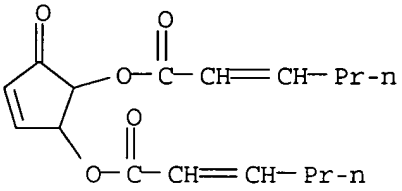
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Pentanoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C15 H22 O5



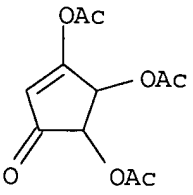
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Hexenoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C17 H22 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

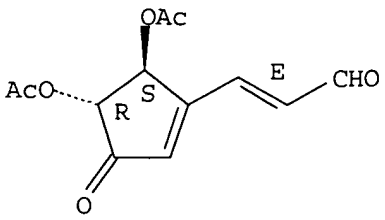
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 3,4,5-trihydroxy-, triacetate (5CI)
MF C11 H12 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Propenal, 3-[4,5-bis(acetyloxy)-3-oxo-1-cyclopenten-1-yl]-,
[4R-[1(E),4α,5β]]- (9CI)
MF C12 H12 O6

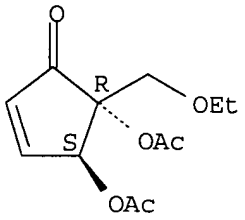
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-(ethoxymethyl)-, trans- (9CI)
MF C12 H16 O6

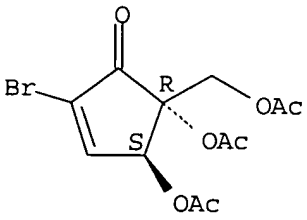
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(acetyloxy)methyl]-2-bromo-, (4S-trans)- (9CI)
MF C12 H13 Br O7

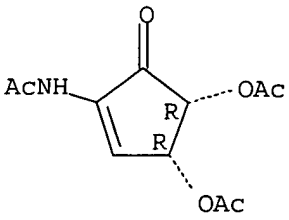
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Acetamide, N-[3,4-bis(acetyloxy)-5-oxo-1-cyclopenten-1-yl]-, (3R-cis)- (9CI)
MF C11 H13 N O6

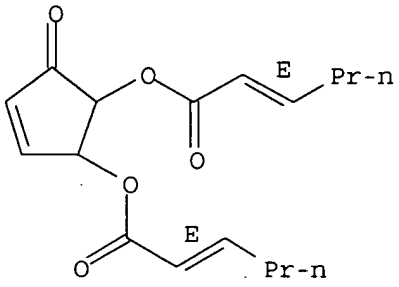
Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

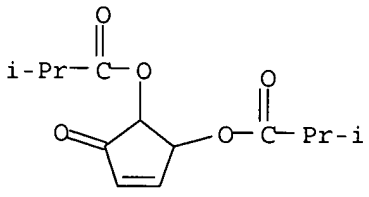
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Hexenoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester, (2E,2'E)- (9CI)
MF C17 H22 O5

Double bond geometry as shown.



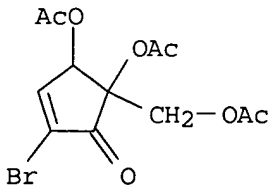
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanoic acid, 2-methyl-, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C13 H18 O5



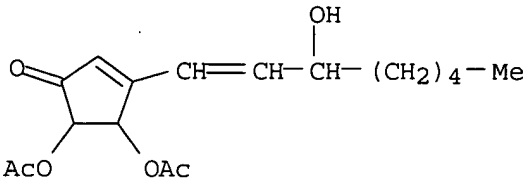
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(acetyloxy)methyl]-2-bromo-
(9CI)
MF C12 H13 Br O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

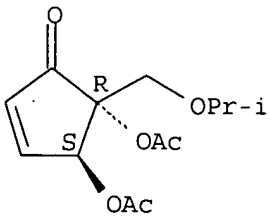
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-3-(3-hydroxy-1-octenyl)- (9CI)
MF C17 H24 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

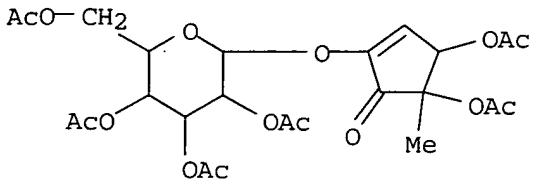
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(1-methylethoxy)methyl]-, trans- (9CI)
MF C13 H18 O6

Relative stereochemistry.



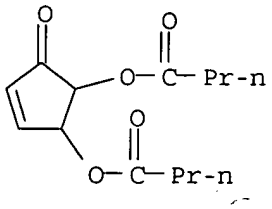
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-methyl-2-[(2,3,4,6-tetra-O-acetyl-β-D-galactopyranosyl)oxy]-, (4S-cis)- (9CI)
MF C24 H30 O15



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

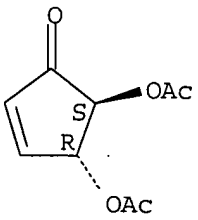
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Butanoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C13 H18 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-, (4R,5S)- (9CI)
MF C9 H10 O5

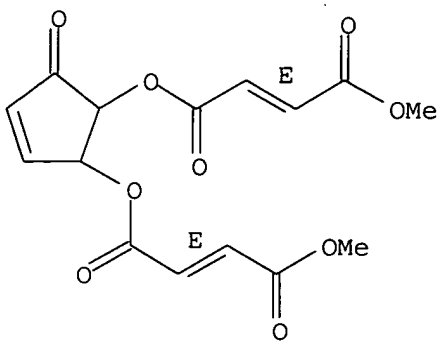
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Butenedioic acid (2E)-, 5-oxo-3-cyclopentene-1,2-diyl dimethyl ester (9CI)
MF C15 H14 O9

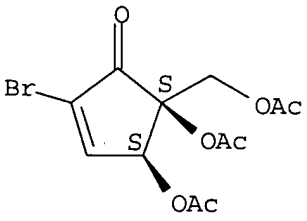
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(acetyloxy)methyl]-2-bromo-, (4S-cis)- (9CI)
MF C12 H13 Br O7

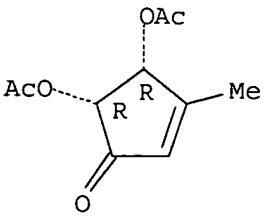
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-3-methyl-, cis- (9CI)
MF C10 H12 O5

Relative stereochemistry.

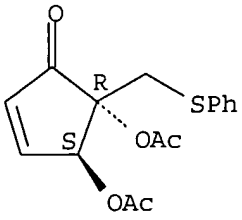


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(phenylthio)methyl]-, trans-

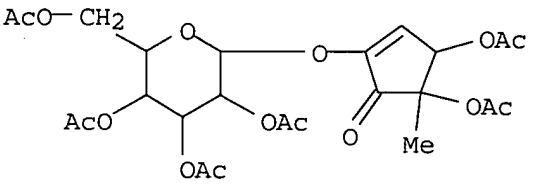
(9CI)
MF C16 H16 O5 S

Relative stereochemistry.



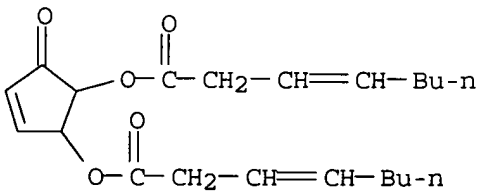
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-methyl-2-[(2,3,4,6-tetra-O-acetyl-β-D-galactopyranosyl)oxy]-, (4S-trans)- (9CI)
MF C24 H30 O15



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

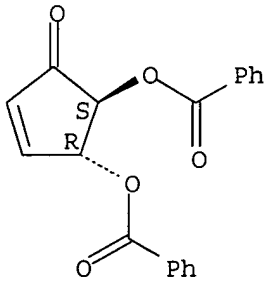
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 3-Octenoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C21 H30 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(benzoyloxy)-, (4R,5S)- (9CI)
MF C19 H14 O5

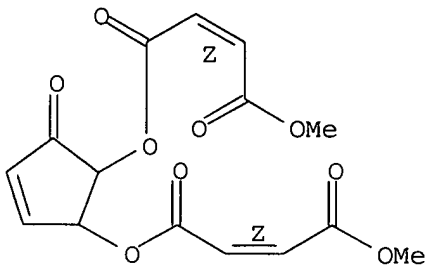
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Butenedioic acid (2Z)-, 5-oxo-3-cyclopentene-1,2-diyl dimethyl ester (9CI)
MF C15 H14 O9

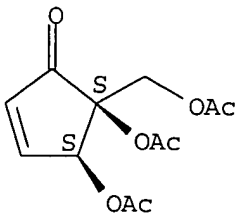
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

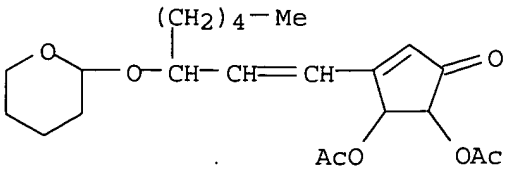
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(acetyloxy)methyl]-, (4S,5S)-(9CI)
MF C12 H14 O7

Absolute stereochemistry. Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

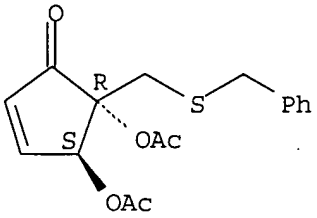
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-3-[3-[(tetrahydro-2H-pyran-2-yl)oxy]-1-octenyl]- (9CI)
MF C22 H32 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

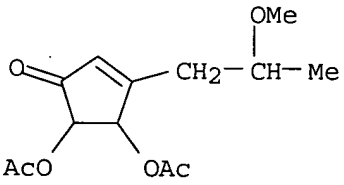
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[[(phenylmethyl)thio]methyl]-, trans- (9CI)
MF C17 H18 O5 S

Relative stereochemistry.



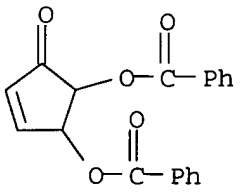
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-3-(2-methoxypropyl)- (9CI)
MF C13 H18 O6



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

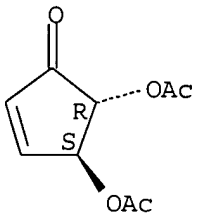
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(benzoyloxy)- (9CI)
MF C19 H14 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

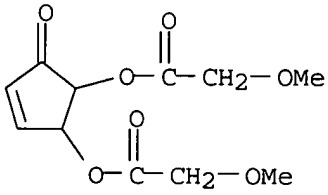
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-, (4S,5R)- (9CI)
MF C9 H10 O5

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

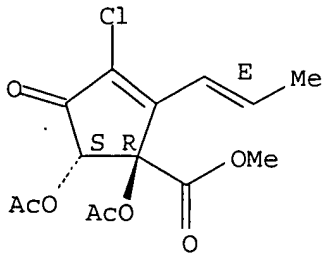
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Acetic acid, methoxy-, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C11 H14 O7



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopentene-1-carboxylic acid, 1,5-bis(acetyloxy)-3-chloro-4-oxo-2-(1-propenyl)-, methyl ester, [1R-[1α,2(E),5β]]- (9CI)
MF C14 H15 Cl O7

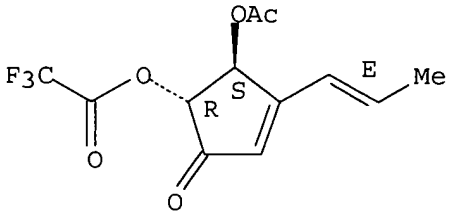
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Acetic acid, trifluoro-, 2-(acetyloxy)-5-oxo-3-(1-propenyl)-3-cyclopenten-1-yl ester, [1R-[1α,2β,3(E)]]- (9CI)
MF C12 H11 F3 O5

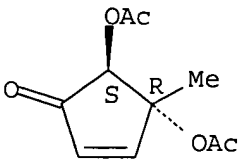
Absolute stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-4-methyl-, trans- (9CI)
MF C10 H12 O5

Relative stereochemistry.

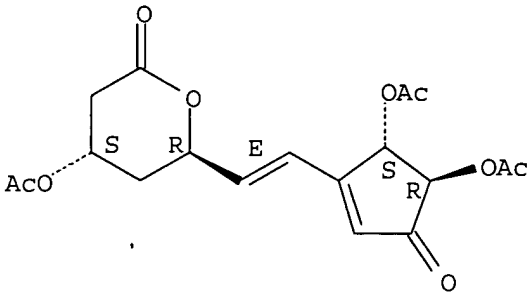


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2H-Pyran-2-one, 4-(acetyloxy)-6-[2-[4,5-bis(acetyloxy)-3-oxo-1-cyclopenten-1-yl]ethenyl]tetrahydro-, [4α,6β[E(4S*,5R*)]]- (9CI)
MF C18 H20 O9

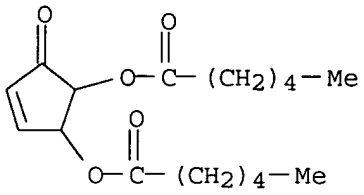
Relative stereochemistry.

Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

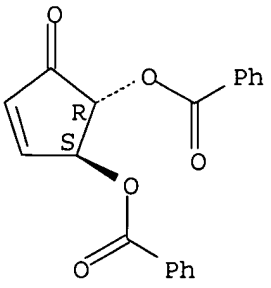
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Hexanoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C17 H26 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

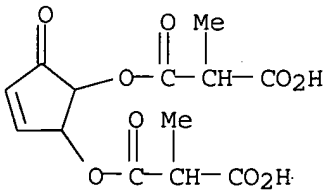
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(benzoyloxy)-, (4S,5R)- (9CI)
MF C19 H14 O5

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

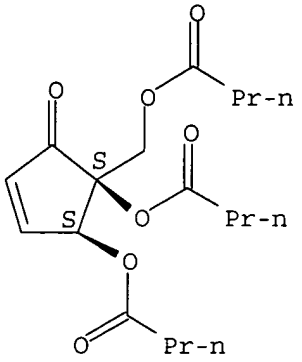
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Propanedioic acid, methyl-, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C13 H14 O9



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Butanoic acid, 5-oxo-1-[(1-oxobutoxy)methyl]-3-cyclopentene-1,2-diyl ester, (1S-cis)- (9CI)
MF C18 H26 O7

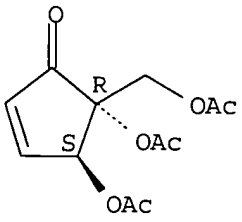
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-5-[(acetyloxy)methyl]-, trans- (9CI)
MF C12 H14 O7

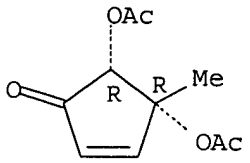
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-4-methyl-, cis- (9CI)
MF C10 H12 O5

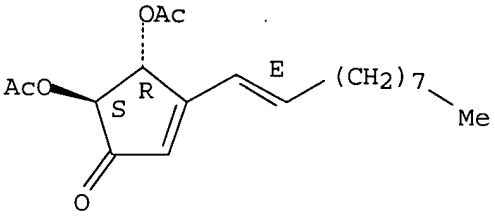
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

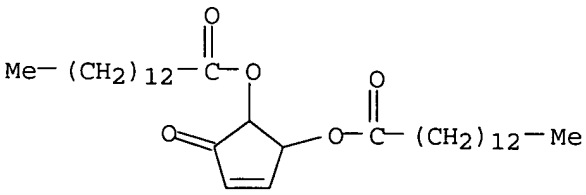
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-3-(1-decenyl)-, [3(E),4α,5β]- (9CI)
MF C19 H28 O5

Relative stereochemistry.
Double bond geometry as shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

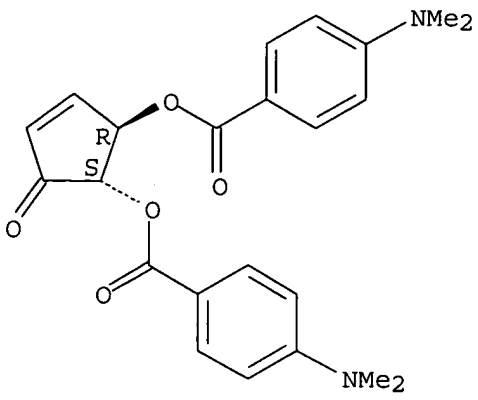
L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Tetradecanoic acid, 5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C33 H58 O5



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzoic acid, 4-(dimethylamino)-, (1S,2R)-5-oxo-3-cyclopentene-1,2-diyl ester (9CI)
MF C23 H24 N2 O5

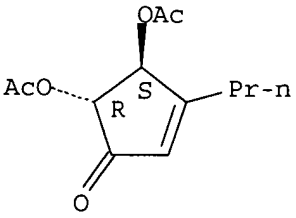
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-3-propyl-, (4R,5S)-rel- (9CI)
MF C12 H16 O5

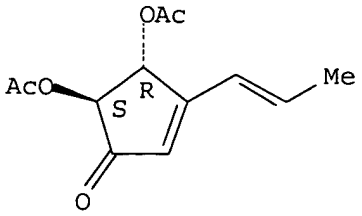
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L15 69 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Cyclopenten-1-one, 4,5-bis(acetyloxy)-3-(1-propenyl)-, trans- (9CI)
MF C12 H14 O5

Relative stereochemistry.
Double bond geometry unknown.
Currently available stereo shown.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> fil hcapl
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 202.08 | 396.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION
CA SUBSCRIBER PRICE | 0.00 | -2.19

FILE 'HCAPLUS' ENTERED AT 11:16:12 ON 23 DEC 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 23 Dec 2005 VOL 144 ISS 1
FILE LAST UPDATED: 22 Dec 2005 (20051222/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

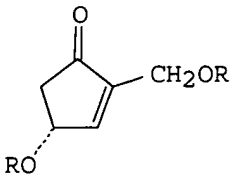
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l15
L16 44 L15

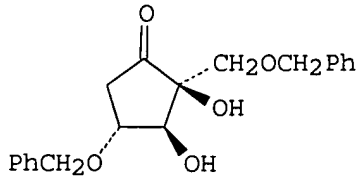
=> s l16 and (treat? or therap?)
3290486 TREAT?
445371 THERAP?
L17 14 L16 AND (TREAT? OR THERAP?)

=> d ibib abs 12-14

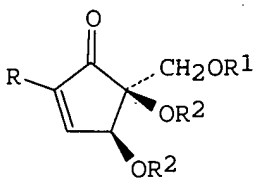
L17 ANSWER 12 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1985:113124 HCAPLUS
DOCUMENT NUMBER: 102:113124
TITLE: Studies related to cyclopentanoid natural products. Part 3. Synthesis of pentenomycin and its racemate
AUTHOR(S): Hetmanski, Michael; Purcell, Neil; Stoodley, Richard J.; Palfreyman, Malcolm N.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Newcastle upon Tyne, Newcastle upon Tyne, NE1 7RU, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1984), (9), 2089-96
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



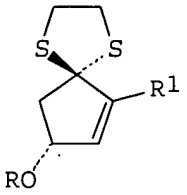
I



II



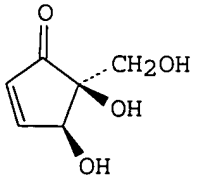
III



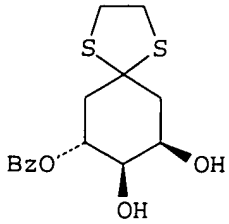
IV

AB The 4R cyclopentenone I (R = CH2Ph) reacted with OsO4 to give diol II, the cis hydroxylation having occurred anti to the 4-benzyloxy group. A subsequent hydrogenolysis-dehydration sequence converted II into pentenomycin (III; R = R1 = R2 = H). Although the optical rotations of synthetic III (R = R1 = R2 = H) and its derivs. III (R = H, Br, R1 = R2 = Ac; R = R2 = H, R1 = CH2Ph) were substantially different from literature values, the compds. are enantiomerically pure. **Treatment** of the dithiaspirononene IV (R = H, R1 = CH2OH) with Me3CSiMe2Cl gave IV (R = SiMe2CMe3, R1 = CH2OSiMe2CMe3) which reacted with (PhSeO)2O to give I (R = SiMe2CMe3), subsequent reactions of which with OsO4 and HCl gave pentenomycin. Racemic I (R = SiMe2CMe3), prepared from racemic I (R = H) and Me3CSiMe2Cl, was transformed analogously into racemic pentenomycin.

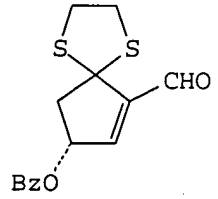
L17 ANSWER 13 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1983:453439 HCAPLUS
DOCUMENT NUMBER: 99:53439
TITLE: Syntheses of (±)- and (-)-O-pentenomycin I
AUTHOR(S): Elliott, John D.; Hetmanski, Michael; Palfreyman, Malcolm N.; Purcell, Neil; Stoodley, Richard J.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Newcastle upon Tyne, Newcastle upon Tyne, NE1 7RU, UK
SOURCE: Tetrahedron Letters (1983), 24(9), 965-8
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 99:53439
GI



I



II



III

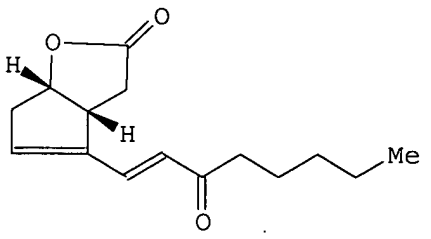
AB (±)-Pentenomycin I [(±)-I] and (-)-pentenomycin I [(-)-I] were prepd in several steps from 3-(hydroxymethyl)-2-methylfuran and from D-(-)-quinic acid, resp. A key step in the latter synthesis was the

conversion of the diol II into the cyclopentenecarboxaldehyde III in 72% yield by sequential **treatment** with Pb(OAc)4 in CH2Cl2 and pyrrolidinium acetate in C6H6.

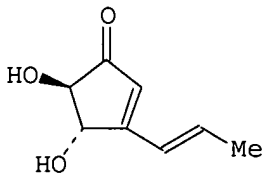
L17 ANSWER 14 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1979:71825 HCAPLUS
DOCUMENT NUMBER: 90:71825
TITLE: Prostaglandin intermediates from a mold metabolite
INVENTOR(S): Mitscher, Lester Allen; Clark, George Winfred, III; Bokelman, Gordon Herman
PATENT ASSIGNEE(S): Ohio State University Research Foundation, USA
SOURCE: U.S., 9 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4103091	A	19780725	US 1976-707726	19760722
US 4188329	A	19800212	US 1978-904831	19780511
PRIORITY APPLN. INFO.:			US 1975-611468 A2	19750908
			US 1976-707726 A3	19760722

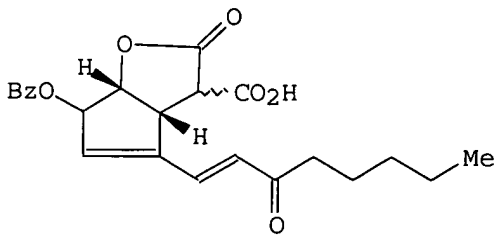
GI



I



II



III

AB The prostaglandin intermediate I was prepared from terrein (II) by 2 similar routes involving benzoylation or acetylation, resp. Thus, terrein dibenzoate was hydroxylated with OsO4, reduced with Zn(BH4)2, oxidized to the aldehyde with NaIO4, **treated** with C5H11COCH2P(O)(OMe)2, acylated with EtO2CCH2COCl, cyclized with Me3CONa to III, decarboxylated, and reduced with Zn dust to give I.

=> d ibib abs 1-11

L17 ANSWER 1 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:962192 HCAPLUS
DOCUMENT NUMBER: 143:244920
TITLE: Extraction of hygrophorone derivatives for

pharmaceutical use as antibacterial and fungicidal agents

INVENTOR(S): Wessjohann, Ludger A.; Arnold, Norbert; Luebken, Tilo; Locher, Hans

PATENT ASSIGNEE(S): Leibniz-Institut fuer Pflanzenbiochemie IPB, Germany

SOURCE: PCT Int. Appl., 45 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

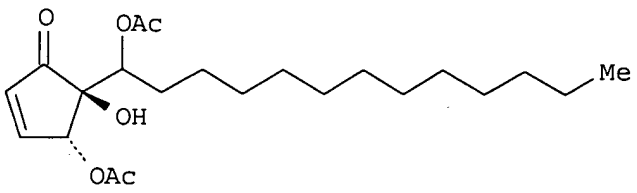
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080311	A1	20050901	WO 2005-EP1957	20050224
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 102004009185	A1	20050915	DE 2004-102004009185	20040225
PRIORITY APPLN. INFO.:			DE 2004-102004009185A	20040225
			DE 2004-102004015566A	20040330

OTHER SOURCE(S): MARPAT 143:244920

GI



I

AB This invention relates to the extraction of hygrophorone derivs., such as 4,6-di-O-acetylhygrophorone A12 (I), from various Hygrophorus species for **therapeutic** use as fungicidal or antibacterial agents.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:341263 HCAPLUS

DOCUMENT NUMBER: 141:67971

TITLE: Hygrophorones A-G: fungicidal cyclopentenones from Hygrophorus species (Basidiomycetes)

AUTHOR(S): Lubken, Tilo; Schmidt, Jurgen; Porzel, Andrea; Arnold, Norbert; Wessjohann, Ludger

CORPORATE SOURCE: Department of Bioorganic Chemistry, Leibniz-Institute of Plant Biochemistry, Halle/Saale, D-06120, Germany

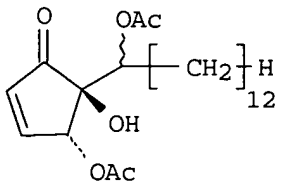
SOURCE: Phytochemistry (Elsevier) (2004), 65(8), 1061-1071
CODEN: PYTCAS; ISSN: 0031-9422

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

AB Twenty new 5-(hydroxyalkyl)-2-cyclopentenone derivs. (hygrophorones, e.g. I) could be isolated from Hygrophorus latitabundus, H. olivaceoalbus, H. persoonii, and H. pustulatus. Their fungicidal activity was exemplarily tested. The hygrophorones have structural similarities to the antibiotic pentenomycin. Chemical, hygrophorones are 2-cyclopentenones with hydroxy or acetoxy substituents at C-4 and/or C-5. An odd-numbered 1' oxidized alkyl chain (C11, C13, C15, or C17) is attached at C-5. In addition, from H. persoonii the new γ-butyrolactone derivative 5-(E)-2-hydroxytetradexylidene-5H-furan-2-one could be isolated. Some hygrophorones are responsible for the color reaction of the stipes of these fungi upon **treatment** with potassium hydroxide solution Structural elucidations are based on 1D (1H, 13C) and 2D (COSY, NOESY, HSQC, HMBC) NMR spectroscopic analyses as well as HR-FT-ICR-MS investigations.

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 3 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:592544 HCAPLUS

DOCUMENT NUMBER: 133:176974

TITLE: Preparation of 4,5-dihydroxy-2-cyclopenten-1-one, 4-hydroxy-2-cyclopenten-1-one, and derivatives thereof as promoters for production of interleukin-12 and growth factor

INVENTOR(S): Ohnogi, Hiromu; Akiyama, Kaori; Tominaga, Takanari; Nishiyama, Eiji; Wu, Hua-kang; Tatsumi, Yoko; Sagawa, Hiroaki; Kato, Ikunoshin

PATENT ASSIGNEE(S): Takara Shuzo Co., Ltd., Japan

SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000048586	A1	20000824	WO 2000-JP787	20000214
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1170007	A1	20020109	EP 2000-902942	20000214
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

PRIORITY APPLN. INFO.:

JP 1999-42236	A	19990219
JP 1999-108499	A	19990415
JP 1999-264539	A	19990917

WO 2000-JP787 W 20000214

AB Described are remedies or preventives for diseases with a need for the reinforcement of the production of growth factor and/or diseases with a need for the reinforcement of the production of interleukin-12, characterized by containing as the active ingredient a compound selected from among 4,5-dihydroxy-2-cyclopenten-1-one (I), 4-hydroxy-2-cyclopenten-1-one, and derivs. thereof. These compds. are useful for the **treatment** or prevention of hepatitis, Alzheimer's disease, cancer, diabetes, etc., or as functional food or beverages for maintaining homeostasis. Thus, 10 g D-glucuronic acid was dissolved in 1 L H2O and heated at 121° for 4 h, followed by chromatog. purification using a silica gel column BW-300SP (Fuji Silysia Chemical Ltd., Japan) to give 100 mg I which was esterified by propanoic anhydride in CH2Cl2 in the presence of 4-dimethylaminopyridine and Et3N under ice-cooling for 1 h to give 4,5-bis(propanoyloxy)-2-cyclopenten-1-one (II). II in vitro increased the production of nerve growth factor from 0.570 ng/mL (control) to 2.150 ng/mL at 17.5 ng/mL in rat fibroblast cells. An injection solution containing I and a tablet containing II were prepared

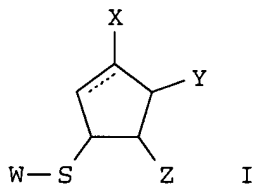
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN

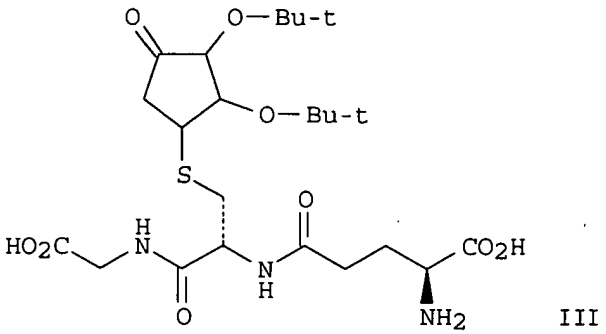
ACCESSION NUMBER: 2000:144898 HCAPLUS
DOCUMENT NUMBER: 132:194660
TITLE: Preparation of cyclopentanone derivatives as apoptosis inducers
INVENTOR(S): Kobayashi, Eiji; Ohnogi, Hiromu; Koyama, Nobuto; Ikai, Katsushige; Sagawa, Hiroaki; Kato, Ikunoshin
PATENT ASSIGNEE(S): Takara Shuzo Co., Ltd., Japan
SOURCE: PCT Int. Appl., 55 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 2000011021	A1	20000302	WO 1999-JP4324		19990810
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG					
AU 9951958	A1	20000314	AU 1999-51958		19990810
EP 1106624	A1	20010613	EP 1999-937011		19990810
EP 1106624	B1	20030409			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO					
AT 236927	E	20030415	AT 1999-937011		19990810
ES 2191446	T3	20030901	ES 1999-937011		19990810
US 6380262	B1	20020430	US 2001-762265		20010206
PRIORITY APPLN. INFO.:			JP 1998-232746	A	19980819
			WO 1999-JP4324	W	19990810

OTHER SOURCE(S): MARPAT 132:194660
GI



I



III

AB 5-Membered ring compds. represented by general formula [I; the dotted line in the 5-membered ring represents that this 5-membered ring may be a cyclopentene ring possessing a double bond or a saturated cyclopentane ring; when it is a cyclopentene ring, X = OR1, Y = O, and Z = H; when it is a cyclopentane ring, X = O, Y = OR2, and Z = OR3; R1 = R4 , COR5; R2 = H, R6, COR7; R3 = H, R8, COR9; R4 - R9 = aliphatic, aromatic, or araliph. group; provided that a case where R2 = R3 = H is excluded; W = residue derived by removing SH group from a HS-containing compound] , optically active isomers thereof, or salts of the same are prepared as well as pharmaceutical formulations containing I. These compds. have physiol. activities including a carcinostatic effect, antiviral activity against influenza virus, and topoisomerase-inhibitory activity. Thus, 10 g D-glucuronic acid was dissolved in 1 L H2O, heated at 121° for 4 h, concentrated under reduced pressure, mixed with a 3:2:2 mixture of tert-Bu acetate, AcOH, and H2O (40 mL), and centrifuged. The supernatant liquid was concentrated to .apprx.10 mL and applied to a silica gel chromatog. column which was eluted with a 3:2:2 mixture of tert-Bu acetate, AcOH, and H2O to give 100 mg 4,5-dihydroxy-2-cyclopenten-1-one. The latter compound (44 mg) and tert-Bu 2,2,2-trichloroacetimidate (287 mg) were dissolved in 2.5 mL CH2Cl2 and **treated** dropwise with 1 mL BF3.Et2O, and stirred at room temperature for 8 h to give, after purification by TLC, 4,5-di(tert-butoxy)-2-cyclopenten-1-one (II) 11, 4-tert-butoxy-5-hydroxy-2-cyclopenten-1-one 9.2, and 5-tert-butoxy-4-hydroxy-2-cyclopenten-1-one 1.9%. II (185 mg) was dissolved in 3.6 mL ethanol, followed by adding 3.6 mL PBS and 252 mg glutathione (reduced form) and adjusting the pH of the solution at 7.5 by adding 1 M Tris-HCl, and the resulting mixture was stirred at room temperature for 1 h, and concentrated to dryness to give, after purification by TLC, the adduct, namely 2,3-di(tert-butoxy)-4-(glutathion-S-yl)-1-cyclopentanone (III). III in vitro at 34 μM induced apoptosis in HL-60 cell and inhibited the proliferation of HL-60.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 5 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:34881 HCAPLUS
DOCUMENT NUMBER: 130:95322
TITLE: Preparation of 4,5-dihydroxy-2-cyclopenten-1-one

derivatives as anticancer and apoptosis-inducing agents

INVENTOR(S): Kobayashi, Eiji; Koyama, Nobuto; Kato, Ikunoshin; Inami, Kaoru; Shiba, Tetsuo

PATENT ASSIGNEE(S): Takara Shuzo Co., Ltd., Japan

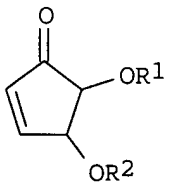
SOURCE: PCT Int. Appl., 38 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9900349	A1	19990107	WO 1998-JP2516	19980605
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2287282	AA	19990107	CA 1998-2287282	19980605
AU 9875516	A1	19990119	AU 1998-75516	19980605
AU 739505	B2	20011011		
EP 1000923	A1	20000517	EP 1998-923158	19980605
EP 1000923	B1	20031203		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
CN 1129569	B	20031203	CN 1998-806456	19980605
AT 255554	E	20031215	AT 1998-923158	19980605
ES 2209139	T3	20040616	ES 1998-923158	19980605
JP 3639601	B2	20050420	JP 1999-505418	19980605
TW 555744	B	20031001	TW 1998-87110072	19980623
US 6111145	A	20000829	US 1999-419221	19991015
PRIORITY APPLN. INFO.:			JP 1997-187205 A	19970630
			WO 1998-JP2516 W	19980605

OTHER SOURCE(S): MARPAT 130:95322

GI



I

AB Cyclopentenone derivs. of general formula (I) or optically active isomers thereof, or salts of both (wherein R1 and R2 are the same or different and each represents a linear or branched alkyl group, a linear or branched alkenyl group, an aromatic group, an araliph. group or H, excluding the cases in which both R1 and R2 are H, or R1 is benzyl and R2 is H), which are useful for the **treatment** of cancer, viral diseases, rheumatism, diabetes, allergy, autoimmune diseases, and inflammation, are prepared Thus, 10 g D-glucuronic acid was dissolved in 1 L H2O, heated at 121° for 4 h, concentrated to 10 mL volume, stirred with a 3:2:2 mixture of tert-Bu acetate/AcOH/H2O, and centrifuged. The supernatant extract was concentrated to 10 mL volume and applied to a BW-300SP silica gel chromatog. column which was eluted with 3:2:2 mixture of tert-Bu acetate/AcOH/H2O to give 100 mg 4,5-dihydroxy-2-cyclopenten-1-one, I (R1 = R2 = H) (II). II

was resolved to (-)-(4R,5S)-II and (+)-(4S,5R)-II enantiomer by HPLC using a ChiralPak AS column. II (44 mg) and 492 mg benzyl 2,2,2-trichloroacetimidate were dissolved in 2.5 mL CH2Cl2, followed by slowly adding 1 mL Et2O.BF3 with stirring, and the stirring was continued at room temperature for 8 h to give I (R1 = H, R2 = CH2Ph) 3.7, I (R1 = CH2Ph, R2 = H) 3.7, and I (R1 = R2 = CH2Ph) 2.5%. I (R1 = H, R2 = CH2Ph) at 2.44 μg/mL, I (R1 = CH2Ph, R2 = H) at 19.5 μg/mL, and I (R1 = R2 = CH2Ph) at 156 μ/mL completely inhibited the proliferation of leukemia HL-60 cells. I (R1 = R2 = CH2Ph) at ≥250 μM also inhibited topoisomerase II. I (R1 = H, R2 = tert-butyl) and I (R1 = R2 = tert-butyl) at 1 mg and 10 mg/10 mL olive oil/kg p.o. inhibited carrageenan-induced sole edema in rats. Pharmaceutical formulations were prepared

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 6 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1998:693406 HCAPLUS
DOCUMENT NUMBER: 129:275660
TITLE: Preparation of 4,5-diacetoxy-2-cyclopentenone from 2,5-diacetoxy-2,4-pentadienal
INVENTOR(S): Tajima, Kiyohiko
PATENT ASSIGNEE(S): Noguchi Research Institute, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

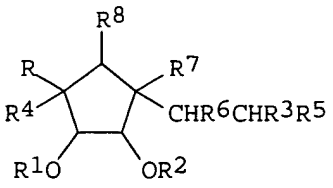
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10287616	A2	19981027	JP 1997-114374	19970416

PRIORITY APPLN. INFO.: JP 1997-114374 19970416
OTHER SOURCE(S): CASREACT 129:275660
AB 4,5-Diacetoxy-2-cyclopentenone (I), useful as an antibiotic agent, anticancer agent (no data), and as an intermediate for perfumes and pharmaceuticals, is prepared by **treatment** of 2,5-diacetoxy-2,4-pentadienal (II) in Ac2O in the presence of acids. II was **treated** with CF3CO2H at room temperature for 2 h in Ac2O to give 73.2% I.

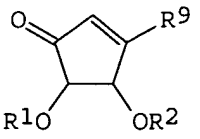
L17 ANSWER 7 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1993:603239 HCAPLUS
DOCUMENT NUMBER: 119:203239
TITLE: Preparation of terrein derivatives as anticholesteremics
INVENTOR(S): Kirsch, Reinhard; Hammann, Peter; Granzer, Ernold; Reuschling, Dieter Bernd
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Ger. Offen., 53 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4142075	A1	19930624	DE 1991-4142075	19911219

PRIORITY APPLN. INFO.: DE 1991-4142075 19911219
OTHER SOURCE(S): MARPAT 119:203239
GI



I

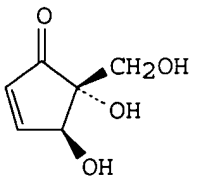


II

AB Title compds. [I; R, R6-R8 = H; R1, R2 = H, alkyl, CH2OMe, SiMe3, alkanoyl, alkoxycarbonyl, etc.; R1 = (cyclo)alkyl, (hetero)aryl, OH, alkoxy, CH(OH)CH2CH(OH)CH2CO2Me, sugar residue, etc.; R4 = OH, alkanoyloxy, alkoxy, etc.; or RR4 = O; R5 = H, alkylthio, alkoxycarbonylmethylthio, arylthio, NH2, etc.; or R5R6, R7R8 = bond] were prepared Thus, bis(silyloxy)cyclopropenone II [R1 = R2 = SiMe2CMe3, R9 = CH2P(O)(OMe)2] was condensed with cyclohexanecarboxaldehyde to give, after deprotection, II (R1 = R2 = H, R9 = 2-cyclohexylvinyl), which after 21 days reduced total serum cholesterol and serum triglycerides from 113 to 92 and 226 to 127% of a normal level, resp., at 10 mg/kg/day orally in cholesterol-fed rabbits.

L17 ANSWER 8 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1992:147791 HCAPLUS
DOCUMENT NUMBER: 116:147791
TITLE: Fungal bioconversions yielding unusual antibiotics from carbohydrates. XVI. Enzymic production of echinosporin, a new enantiomerically pure pentenomycin, from 1,4-α-D-glucans
AUTHOR(S): Baute, Marie Antoinette; Deffieux, Gerard; Baute, Robert; Badoc, Alain; Vercauteren, Joseph; Leger, Jean Michel; Neveu, Arlette
CORPORATE SOURCE: Lab. Mycol. Biol. Veg., Fac. Sci. Pharm., Bordeaux, 33000, Fr.
SOURCE: Bulletin de la Societe de Pharmacie de Bordeaux (1990), 129(1-2-3-4), 17-30
CODEN: BSPBAD; ISSN: 0037-9093
DOCUMENT TYPE: Journal
LANGUAGE: French
AB When subjected to activating plasmolytic **treatments**, the discomycete Peziza echinospora exhibits an enzymic activity which degrades 1,4-α-D-glucans to 1,5-D-anhydrofructose, then converts this sugar to echonosporin. Biogenetic, myocol., and practical consequences of this bioconversion are discussed.

L17 ANSWER 9 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:510706 HCAPLUS
DOCUMENT NUMBER: 115:110706
TITLE: Fungal enzymic activity degrading 1,4-α-D-glucans to echinosporin (5-epipentenomycin I)
AUTHOR(S): Baute, Marie Antoinette; Deffieux, Gerard; Baute, Robert; Badoc, Alain; Vercauteren, Joseph; Leger, Jean Michel; Neveu, Arlette
CORPORATE SOURCE: Fac. Pharm., Univ. Bordeaux II, Bordeaux, 33000, Fr.
SOURCE: Phytochemistry (1991), 30(5), 1419-23
CODEN: PYTCAS; ISSN: 0031-9422
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:110706
GI



I

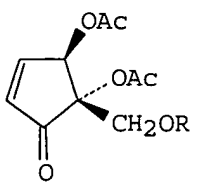
AB When subjected to activating plasmolytic **treatments**, the Discomycete Peziza echinospora exhibits an enzymic activity which degrades 1,4-α-D-glucans to 1,5-D-anhydrofructose, and then converts this sugar to echinosporin (5-epipentenomycin I, I) that had not been previously reported as a pure enantiomer. Biogenetic, mycol. and practical consequences of this bioconversion are discussed.

L17 ANSWER 10 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1991:448910 HCAPLUS
DOCUMENT NUMBER: 115:48910
TITLE: Preparation of 4,5-diacetoxy-2-cyclopentenone from D-glucofuranurono-6,3-lactone triacetate
INVENTOR(S): Tajima, Kiyohiko
PATENT ASSIGNEE(S): Noguchi Research Institute, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 3 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

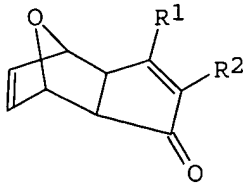
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 02247151	A2	19901002	JP 1989-65286	19890317
JP 07068163	B4	19950726		
PRIORITY APPLN. INFO.:			JP 1989-65286	19890317

AB 4,5-Diacetoxy-2-cyclopentenone (I), useful as an intermediate for perfumes and pharmaceuticals, is prepared by **treatment** of D-glucofuranurono-6,3-lactone triacetate (II) with pyridine in Ac2O, followed by **treatment** with acid catalysts in Ac2O. II was **treated** with pyridine in Ac2O at 100° for 10 h, concentrated in vacuo, extracted with diisopropyl ether, concentrated, and **treated** with CF3CO2H in Ac2O at room temperature for 4 h to give 33.0% I.

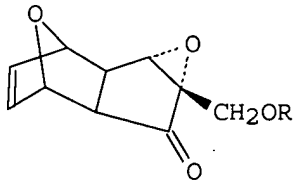
L17 ANSWER 11 OF 14 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1988:75063 HCAPLUS
DOCUMENT NUMBER: 108:75063
TITLE: Sulfone-mediated synthesis of cyclopentadienone epoxides from 10-oxatricyclo[5.2.1.02,6]decadienones. A convenient route to epi-pentenomycins
AUTHOR(S): Klunder, A. J. H.; Houwen-Claassen, A. A. M.; Kooy, M. G.; Zwanenburg, B.
CORPORATE SOURCE: Dep. Org. Chem., Univ. Nijmegen, Nijmegen, 6525 ED, Neth.
SOURCE: Tetrahedron Letters (1987), 28(12), 1329-32
CODEN: TELEAY; ISSN: 0040-4039
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 108:75063
GI



I



II



III

AB The title epi-pentenomycins (I; R = Me, Et, Me2CH) were prepared from 10-oxatricyclodecadienone (II; R1 = OH, R2 = H). Sulfonylmethylation of II with 4-MeC6H4SO2Na and paraformaldehyde followed by alkylation gave sulfone II (R1 = OEt, R2 = 4-MeC6H4SO2CH2) which was **treated** with RONa (same R's) to give II (R1 = OEt, R2 = MeOCH2, EtOCH2, Me2CHOCH2). Regioselective reduction of the enol ethers with DIBAL gave enones II (R1 = H) which were epoxidized with alkaline H2O2 to give III. Flash vacuum thermolysis of III gave the corresponding cyclopentadienone epoxides which were converted into I by acidic hydrolysis and acetylation.

```
=> s alzheimer or dementia or cholestasis or neuropathy or stroke or multiple
sclerosis or als
         37548 ALZHEIMER
          2900 ALZHEIMERS
         37617 ALZHEIMER
                 (ALZHEIMER OR ALZHEIMERS)
         11588 DEMENTIA
           559 DEMENTIAS
         11754 DEMENTIA
                 (DEMENTIA OR DEMENTIAS)
          3913 CHOLESTASIS
         10801 NEUROPATHY
          1318 NEUROPATHIES
         11294 NEUROPATHY
                 (NEUROPATHY OR NEUROPATHIES)
         26986 STROKE
          1952 STROKES
         28193 STROKE
                 (STROKE OR STROKES)
        373985 MULTIPLE
          3212 MULTIPLES
        376845 MULTIPLE
                 (MULTIPLE OR MULTIPLES)
         22756 SCLEROSIS
            27 SCLEROSES
         22770 SCLEROSIS
                 (SCLEROSIS OR SCLEROSES)
         13798 MULTIPLE SCLEROSIS
                 (MULTIPLE(W)SCLEROSIS)
          4595 ALS
L18      96965 ALZHEIMER OR DEMENTIA OR CHOLESTASIS OR NEUROPATHY OR STROKE OR
               MULTIPLE SCLEROSIS OR ALS

=> d his
```

```
     (FILE 'HOME' ENTERED AT 11:02:27 ON 23 DEC 2005)

     FILE 'REGISTRY' ENTERED AT 11:02:37 ON 23 DEC 2005
L1              STRUCTURE UPLOADED
L2           50 S L1
L3              STRUCTURE UPLOADED
L4           50 S L3

     FILE 'STNGUIDE' ENTERED AT 11:06:12 ON 23 DEC 2005

     FILE 'REGISTRY' ENTERED AT 11:06:17 ON 23 DEC 2005
L5        72868 S L3 FULL
L6      3420614 S 1/NR
L7        19619 S L5 AND L6

     FILE 'HCAPLUS' ENTERED AT 11:10:58 ON 23 DEC 2005
L8        33258 S L7
L9       174454 S GROWTH FACTOR
L10         421 S L9 AND L8
L11          89 S L8 (S) L9

     FILE 'REGISTRY' ENTERED AT 11:14:29 ON 23 DEC 2005
L12             STRUCTURE UPLOADED
L13          0 S L12 FULL SUB=L5
L14          1 S L12
L15         69 S L12 FULL

     FILE 'HCAPLUS' ENTERED AT 11:16:12 ON 23 DEC 2005
L16         44 S L15
L17         14 S L16 AND (TREAT? OR THERAP?)
L18      96965 S ALZHEIMER OR DEMENTIA OR CHOLESTASIS OR NEUROPATHY OR STROKE

=> s l16 and l18
L19          1 L16 AND L18

=> d

L19  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2005 ACS on STN
AN   2000:592544  HCAPLUS
DN   133:176974
TI   Preparation of 4,5-dihydroxy-2-cyclopenten-1-one, 4-hydroxy-2-cyclopenten-
     1-one, and derivatives thereof as promoters for production of
     interleukin-12 and growth factor
IN   Ohnogi, Hiromu; Akiyama, Kaori; Tominaga, Takanari; Nishiyama, Eiji; Wu,
     Hua-kang; Tatsumi, Yoko; Sagawa, Hiroaki; Kato, Ikunoshin
PA   Takara Shuzo Co., Ltd., Japan
SO   PCT Int. Appl., 50 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 2
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
PI   WO 2000048586         A1    20000824    WO 2000-JP787           20000214
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     EP 1170007           A1    20020109    EP 2000-902942          20000214
```

```
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRAI JP 1999-42236        A     19990219
     JP 1999-108499       A     19990415
     JP 1999-264539       A     19990917
     WO 2000-JP787        W     20000214
RE.CNT  17    THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> s l16 and diabete
            29 DIABETE
        106220 DIABETES
        106223 DIABETE
                 (DIABETE OR DIABETES)
L20          2 L16 AND DIABETE

=> d

L20  ANSWER 1 OF 2  HCAPLUS  COPYRIGHT 2005 ACS on STN
AN   2000:592544  HCAPLUS
DN   133:176974
TI   Preparation of 4,5-dihydroxy-2-cyclopenten-1-one, 4-hydroxy-2-cyclopenten-
     1-one, and derivatives thereof as promoters for production of
     interleukin-12 and growth factor
IN   Ohnogi, Hiromu; Akiyama, Kaori; Tominaga, Takanari; Nishiyama, Eiji; Wu,
     Hua-kang; Tatsumi, Yoko; Sagawa, Hiroaki; Kato, Ikunoshin
PA   Takara Shuzo Co., Ltd., Japan
SO   PCT Int. Appl., 50 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 2
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     --------------      ----   --------    --------------------    --------
PI   WO 2000048586        A1    20000824    WO 2000-JP787           20000214
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
             MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK,
             SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     EP 1170007            A1    20020109    EP 2000-902942          20000214
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
PRAI JP 1999-42236        A     19990219
     JP 1999-108499       A     19990415
     JP 1999-264539       A     19990917
     WO 2000-JP787        W     20000214
RE.CNT  17    THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> d 2

L20  ANSWER 2 OF 2  HCAPLUS  COPYRIGHT 2005 ACS on STN
AN   1999:34881  HCAPLUS
DN   130:95322
TI   Preparation of 4,5-dihydroxy-2-cyclopenten-1-one derivatives as anticancer
     and apoptosis-inducing agents
IN   Kobayashi, Eiji; Koyama, Nobuto; Kato, Ikunoshin; Inami, Kaoru; Shiba,
```

```
     Tetsuo
PA   Takara Shuzo Co., Ltd., Japan
SO   PCT Int. Appl., 38 pp.
     CODEN: PIXXD2
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     --------------      ----   --------    --------------------    --------
PI   WO 9900349           A1    19990107    WO 1998-JP2516          19980605
         W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KR, KZ, LC,
             LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT,
             RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ,
             VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, ML, MR, NE, SN, TD, TG
     CA 2287282            AA    19990107    CA 1998-2287282         19980605
     AU 9875516            A1    19990119    AU 1998-75516           19980605
     AU 739505             B2    20011011
     EP 1000923            A1    20000517    EP 1998-923158          19980605
     EP 1000923            B1    20031203
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, FI
     CN 1129569            B     20031203    CN 1998-806456          19980605
     AT 255554             E     20031215    AT 1998-923158          19980605
     ES 2209139            T3    20040616    ES 1998-923158          19980605
     JP 3639601            B2    20050420    JP 1999-505418          19980605
     TW 555744             B     20031001    TW 1998-87110072        19980623
     US 6111145            A     20000829    US 1999-419221          19991015
PRAI JP 1997-187205        A     19970630
     WO 1998-JP2516        W     19980605
OS   MARPAT 130:95322
RE.CNT  3     THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> log h
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                      ENTRY     SESSION
FULL ESTIMATED COST                                    74.70      471.22

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                      ENTRY     SESSION
CA SUBSCRIBER PRICE                                   -10.22      -12.41

 SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 11:24:42 ON 23 DEC 2005
```